

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A scroll wall arrangement for a scroll compressor, ~~the arrangement~~ comprising:
a fixed scroll wall and an orbiting scroll wall, which together define a plurality of flow paths having respective inlets for simultaneous pumping at different pressures,
wherein the plurality of flow paths comprise a first flow path extending from a first inlet to an outlet and a second flow path extending from a second inlet to the outlet, and
wherein the second inlet is isolated from the first flow path.
2. (currently amended) ~~An~~ The arrangement according to Claim 1; wherein the second inlet is isolated from the first flow path by a portion of the second flow path.
3. (currently amended) ~~An~~ The arrangement according to Claim 1 ~~or Claim 2~~, wherein the second inlet is isolated from the first flow path by at least one wrap of the arrangement.
4. (currently amended) ~~An~~ The arrangement as claimed in ~~any preceding claim~~ Claim 1, wherein the pressure at the second inlet during pumping is either higher or lower than the pressure at the first inlet.
5. (currently amended) A scroll compressor comprising:
a scroll wall arrangement comprising: ~~according to any preceding claim~~
a fixed scroll wall and an orbiting scroll wall arranged to form a first flow path and a second flow path, each flow path having an inlet for pumping a gas at different pressures,
wherein the inlet of the first flow path and the inlet of the second flow path extend to an outlet and wherein the inlet of the second flow path is isolated from the first flow path.

6. (currently amended) ~~A-The scroll compressor of Claim 5 further comprising first and a second scroll wall arrangements each according to any of Claims 1 to 4.~~

7. (currently amended) ~~A-The scroll compressor according to Claim 6; wherein the fixed scroll walls of the scroll wall arrangements are formed as part of a fixed scroll common to both arrangements.~~

8. (currently amended) A differentially pumped system comprising:

~~at least two a first chamber and a second chambers having an or a respective~~
interconnections therebetween;

a turbomolecular pump having an inlet connected to ~~one of the~~ first chambers for pumping at relatively low pressures; and

~~a scroll compressor according to any of Claims 5 to 7 comprising a fixed scroll wall and an orbiting scroll wall arranged to form a first flow path and a second flow path, each flow path having an inlet for pumping a gas at different pressures, wherein the inlet of the first flow path and the inlet of the second flow path extend to an outlet and the inlet of the second flow path is isolated from the first flow path, and~~

wherein one inlet of the scroll compressor is connected to ~~another of the~~ second chambers for pumping at relatively high pressures and another inlet of the scroll compressor is connected to the exhaust of the turbomolecular pump for backing the same.

9. (currently amended) ~~A-The system according to Claim 8; wherein the second inlet of the second flow path scroll compressor is connected to said another of said the second chambers for pumping at relatively high pressures and the first inlet of the first flow path scroll compressor is connected to the exhaust of the turbomolecular pump for backing the same.~~

10. (currently amended) ~~A-The system according to Claim 8; wherein the first inlet of the first flow path scroll compressor is connected to said another of said the second chambers for pumping at relatively high pressures and the second inlet of the second flow path scroll compressor is connected to the exhaust of the turbomolecular pump for backing the same.~~

11. (currently amended) ~~A-The system according to ~~any of~~ Claims 8 ~~to 10~~, wherein the turbomolecular pump is a split flow pump and comprises an inter-stage inlet ~~of the turbomolecular pump~~ is connected to a ~~said~~the first chamber for pumping the same.~~

12. (currently amended) ~~A-The system according to ~~any of~~ Claims 8 ~~to 11~~, wherein the ~~first~~ inlet of the first flow path ~~said scroll compressor~~ is connected to a ~~said~~the first chamber and the exhaust of the turbomolecular pump.~~

13. (new) A scroll wall arrangement for a scroll compressor comprising:
a fixed scroll wall and an orbiting scroll wall, which together define a plurality of flow paths having respective inlets for simultaneous pumping at different pressures,
wherein the plurality of flow paths comprise a first flow path extending from a first inlet to an outlet and a second flow path extending from a second inlet to the outlet and wherein the second inlet is isolated from the first flow path by one revolution of the fixed scroll wall and the second flow path extends from the second inlet through 360° where it merges with the first flow path.